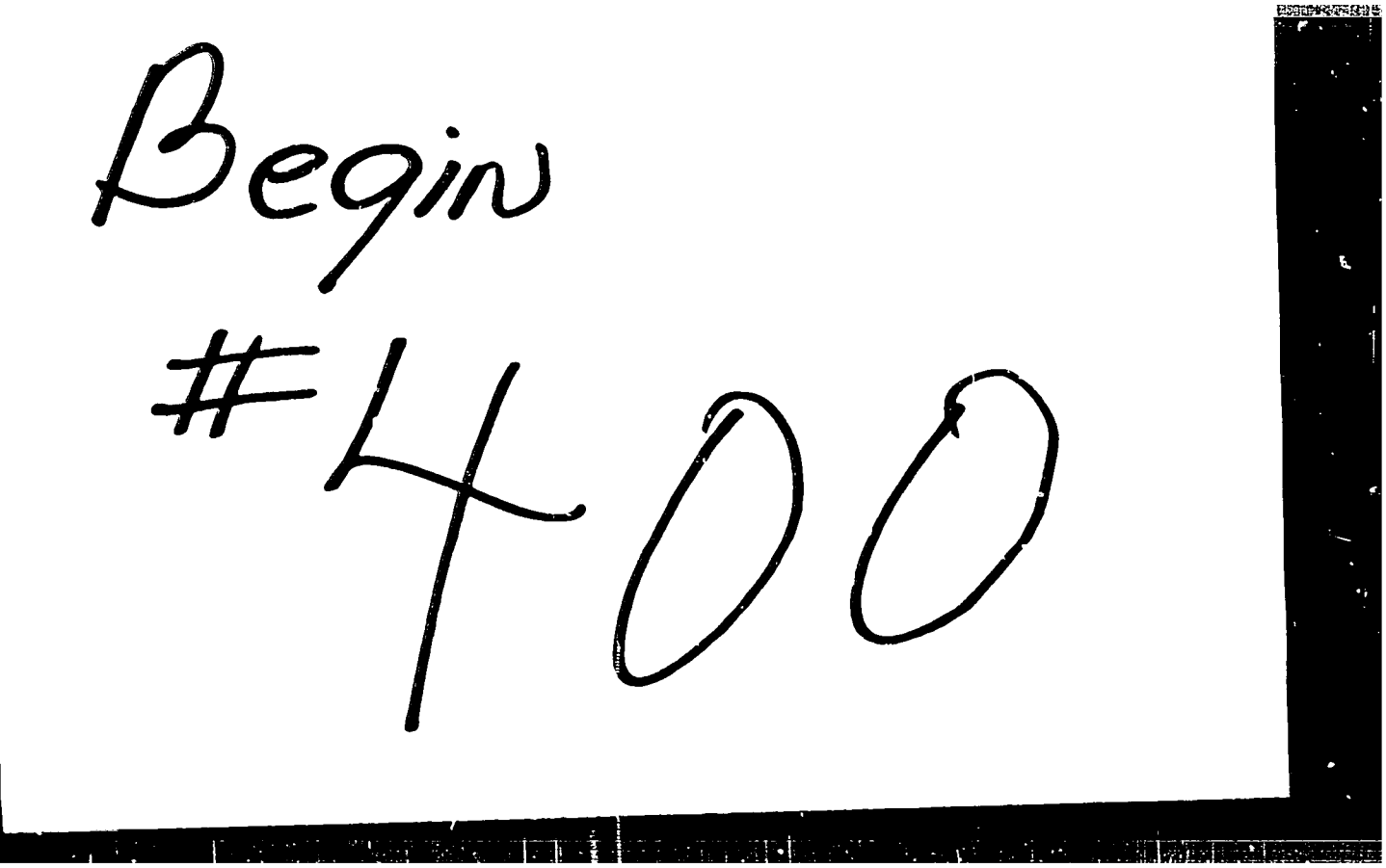


DANDERS, Ya.; YATSEVICHUS, I. [Jacovicius, I.]; GOL'DENBERG, A.; KHARIN, B., inzh. (Leningrad); MOVA, N., inzh.; VINNIKOV, F. (Gomel'); MAMYKIN, I. (Gomel'); BENDERSKIY, A., starshiy inzh. (pos. Igra, Udmurtskoy ASSR); CHERTETSOV, V.; OSIPOV, I.; SIROTININ, M.I.

Exchange of news and experience. Izobr.i rats. no.4:25-26 Ap '62. (MIRA 15:4)

1. Sekretar' respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorv, g. Riga (for Danders). 2. Glavnyy inzh. mezhdugorodnoy telefonnoy stantsii, g. Vil'nyus (for Yatsevichus). 3. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Ufa (for Gol'denberg). 4. Krayevoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Krasnodar (for Mova). 5. Igrinskiy lespromkhoz kombinata "Udmurtles", (for Benderskiy). 6. Predsedatel' Krasnoyarskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Sirotinin).
(Technological innovations)

OSIPOV, I.

Minor architecture of a city. Zhil.-kom. khoz. 13 no.5:24a My '63. (MIRA 16:8)

(Pavilions--Design and construction)

OSIPOV, I.

It rings proudly. Mast.ugl. 9 no.11:9 N '60. (MIRA 13:12)
(Donets Basin--Coal miners)

OSIPOV, I.

Gift of immortality. Zdorov'e 6 no.9:27 S '60. (MIRA 13:8)
(GINSENG)

OSIPOV, I. (Kursk)

Friendly association of efficiency promoters. Zhil.-kom. khoz. 11 no.3:17-20 Mr '61. (MIRA 14:3)
(Kursk—Efficiency, Industrial)

OSIPOV, I.

Trade-union council instructors not on the permanent staff.
Sov. profsoiuzy 7 no.7:35-36 Ap '59. (MIRA 12:7)

1. Sekretar' Minskogo oblastnogo soveta profsoyuzov.
(Minsk Province--Trade unions)

SITOV, I.

Sakhalinskie zapisi; [sen' 194[illegible] rods. [Sakhalin notes, fall [illegible] 945]. [Moskva]
Molodaia gvardiia 1 [illegible]. 15[illegible] p. 111 s., ports. (Biblioteka puteshestvii). Contains
data on transportation.

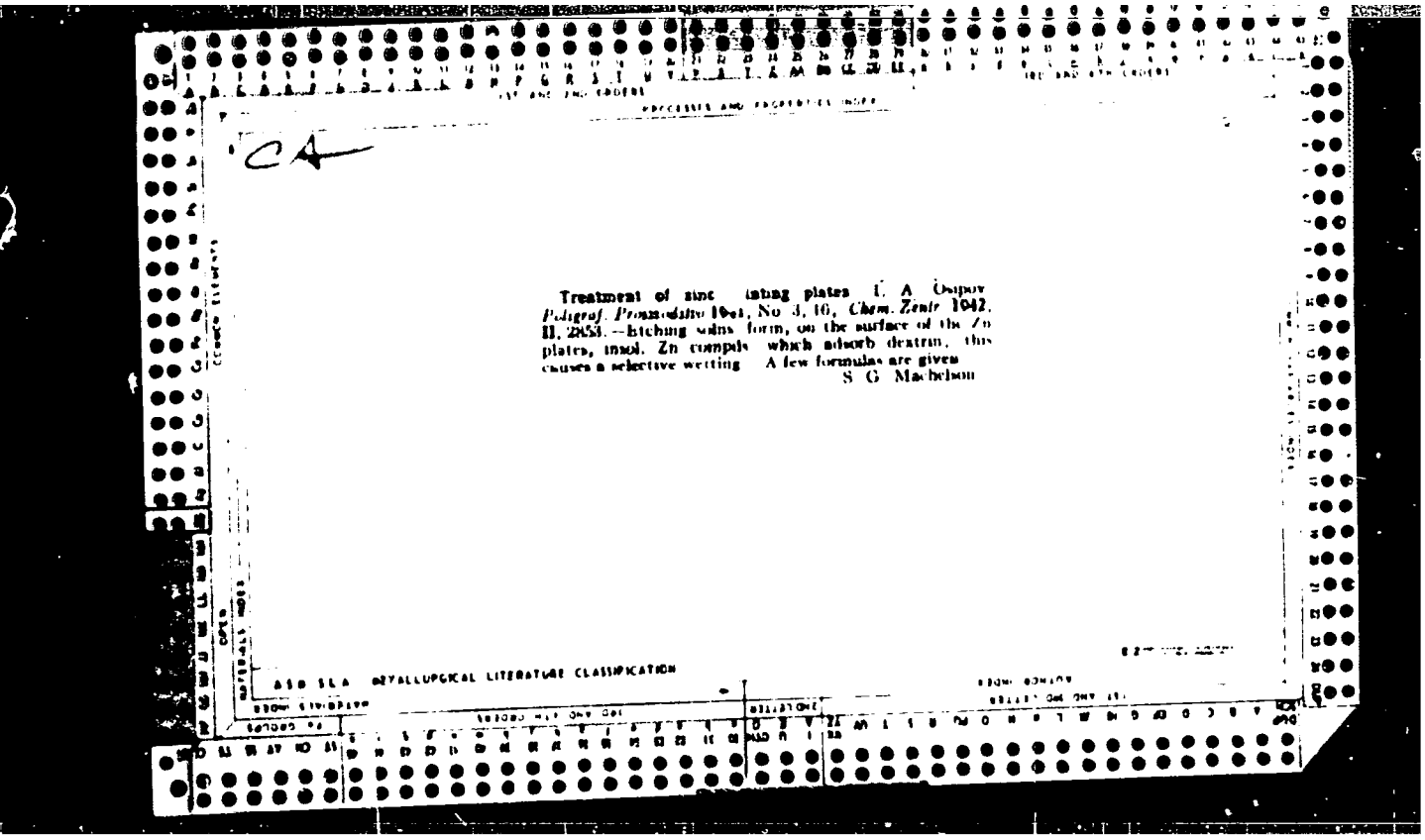
DLC: DK771.S2S8

SO: Soviet Transportation and Communications, A Bibliography, Library of Congress
Reference Department, Washington, 1952, Unclassified

OSIPOV, I.

Za rekonstruktsiiu vodnogo transporta na Aldane. [For the reconstruction of water transportation on the Aldan river] (Sovetskaia zolotopromyshlennost', 1932, no. 9, p. 34-36) DLC: TN25.R9S6

SO: Soviet Transportation and Communication, A Bibliography, Library of Congress Reference Department, Washington, 1952, Unclassified.



CA

Treatment of zinc plating plates. I. A. Osipov. *Pedagog. Promyshlov.* 1941, No. 3, 16; *Chem. Zentr.* 1942, II, 2858.—Etching salts form, on the surface of the Zn plates, insol. Zn compds. which adsorb dextrin, this causes a selective wetting. A few formulas are given.
S. G. Mackelson

A50 SLA METALLURGICAL LITERATURE CLASSIFICATION

OSIPOV, I.

Let's maintain the apartment houses in an exemplary manner. Zhil.-kom.khoz. 10 no.6:18-19 '60. (MIRA 13:7)

1. Predsedatel' domovogo komiteta pri 3-m domoupr vlenii g. Serpukhova.
(Serpukhov--Apartment houses--Maintenance and repair)

OSIPOV, I.

On Russian soil. Vympel 11 no.17:18-19 S '58.
(MIRA 12:9)
(Sakhalin--World War, 1939-1945--Naval operations)

OSIPOV, I.

Treasures of Zhiguli. Vympel 11 no.5:23 Mr '46. (MIRA 12:9)

(Zhiguli hills--Petrolium industry)

OSIPOV, I.

"Portrait of our contemporary" by Ivan Zenin. Reviewed by I. Osipov. Mast.ugl. no.4:29 '59. (MIRA 12:6)
(Coal miners)

OSIPOV, I.

Today a miner tomorrow an engineer. Mast.ugl. 8 no.1:20-21 Ja '59.
(MIRA 12:3)

(Coal miners)

OSIPOV, I.

For your whole life. Znan.sila no.9:2-5 S'55. (MLRA 8:12)
(Technical education)

OSIPOV, I.; GOMOZOVA, N.A., redaktor; GLEYKH, D.A., tekhnicheskiy redaktor

[A record of Sakhalin] Sakhalinskie zapisi. Moskva, Gos. izd-vo geog. lit-ry, 1950. 118 p. [Microfilm]. (MLRA 8:7)
(Sakhalin—Description and travel)

OSIPOV, I.

Glorious traditions. Sov.shakht. 10 no.3:28-29 Mr '61.
(MIRA 14:7)
(Gorlovka region--Historical museums)

OSIPOV, I.

Home gas appliances. Zhil.-kom. khoz.11 no.7:22-23 Jl '61.
(MIRA 14:7)

(Gas appliances)

OSIPOV, I.

USSR
On: Postal, passenger and freight service
On: Location of village
On: Food Combinat and production
On: Kindergarten and number of students
on: Museum

SOURCE: M: Sakhalinskiye Zapisi, Moscow, 1946. Abstracted in U.S.F "Treasure Island" Report No. 47245-49, on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
On: Views of coal mine

SOURCE: M: Sakhalinskiye Zapiski, Moscow, 1 4C. Abstracted in USAF "Treasure Island" Report No. 40886, on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
On: Soviet s/s "Belgorod"; loss by shipwreck of the Soviet tanker "Donbas"

SOURCE: P. Around the World, Oct. '46, Moscow. Abstracted in USAF "Treasure Island" Report No. 59042 on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
On: Pedagogical Institute of Sakhalin
On: Office of "Sakhalinugol"
On: Description of Central Square
On: Physiotherapeutics Institute X-ray
On: Coal mine

SOURCE: M: Sakhalinskiye Zapisi, Moscow, 1946. Abstracted in USF "Treasure Island" Report No. 4725-54, on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
On: Agricultural development in Kolkhoz, Prize awarded
On: Imports and exports of Sakhalin;
navigation to and from the Island
On: Increase of coal production

SOURCE: M: Sakhalinskiye Zapisi,
Moscow, 1946
Abstracted in USAF "Treasure Island" Report No. 49702,
on file in Library of Congress, Air
Information Division. 49771, 49772

OSIPOV, I.

US R
On: Entrance to harbor. Similitide to Crimean landscape
On: Coal carrying steamer "Eskimos"

SOURCE: M: Sakhalinskiye Zapisi, Moscow, 1946
Abstracted in USAF "Treasure Island" Report No. _____, on file in Library of Congress, Air Information Division. 49773, 49774

OSIPOV, I.

USSR
On: Tunnel from city to Due
On: Oil Production
On: Refrigerated storage place.

SOURCE: M: Sakhalinskiye Zapisi
Moscow, 1946
Abstracted in USAF "Treasure Island" Report No. _____, on file in Library of Congress, Air Information Division. 49694, 49695, 49700

OSIPOV, I.

USSR
ON: Oil and Coal Extraction in Sakhalin-
Coking Ovens
On: Air Journey from Aleksandrovsk to Pilen'Ga.
Thawing Airfield. Plane with Skis.

SOURCE: M: Sakhalinskiye Zapisi
Abstracted in USAF "Treasure Island" Report No.
_____, on file in Library of Congress, Air
Information Division. 50226, 50227.

OSIPOV, I.

Tale of a patriotic beginning("Miner's promise" by N.Mamai. Reviewed by I. Osipov). Mast. ugl. 7 no.10:17 O '58.(MIRA 11:11)
(Coal mines and mining) (Mamai, N.)

OSIPOV, I.

USSR
On: Oil Deposits, Development of Coal and Oil Industry, New Cities-Power Plants Planned - Okha, Sakhalinskaya O., [illegible]

SOURCE: M: Sakhalinskiye Zapisi, Moscow, 1946. Abstracted in USIF "Treasure Island" Report No. 48126, on file in Library of Congress, Air Information Division.

[redacted], I.

USSR
On: Women Captain of [redacted].
On: Sand Bars.

SOURCE: M: Sakhalinskiya Zapisi, Moscow, 1940. Abstracted in [redacted] "Translation and" Report No. 49373-73, on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
On: Vegetation in Ty: Val ey and In Sakha in n a who e.
In: Means of trav l from Aleksandr sk to Sa ha

SOURCE: V. Sakhalinskiye Zapiski, Moscow, 46. Abstr cted in [illegible] "Treasure Island" Report No., 4779, on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
Cn: Dve Coal Mine

SOU Cit: M: Sakhalinskiye Zarisi, Moscow, 1947. Abstracted in US "Treasure Island" Report No. 47779, on file in Library of Congress, Air Information Division.

OSIPOV, I.

Maritime Territory. Nauka i zhizn' 24 no.12:51-55 D '57. (MIRA 10:12)
(Maritime Territory)

AUTHOR: Osipov, I. 25-12-32/39

TITLE: **Soviet Maritime Provinces (Sovetskoye Primor'ye)**

PERIODICAL: Nauka i Zhizn', 1957, # 12, pp 51-55, (USSR)

ABSTRACT: The author reviews the recent development of the Pacific coastal area. After construction of the Trans-Siberian Railroad in 1903, Vladivostok became the administrative and industrial center of the Far East. The cities Suchan, Artem, Lesozavodsk, Iman, Spassk-Dal'niy and Voroshilov gained their present importance only after the October Revolution. About 40 large settlements became towns as a result of industrial and agricultural growth. By 1953, industrial production in the Pacific coastal area increased 228 fold as compared with that of 1913. About 200 large industrial enterprises operated in Vladivostok in 1950. The number of cargo vessels of the Fareastern State Sea Fleet increased by dozens of times between 1922 and 1947. Simultaneously fishing, coal mining, mineral, wood and food processing industries were built; recreational facilities, stadiums, public parks constructed, 51 local newspapers were published; and more than 350 libraries were operated. The fishing industry was greatly aided by the

Card 1/3

advice given by the Pacific Scientific Research Institute of Fisheries and Oceanography (Tikhookeanskiy institut rybnogo khozyaystva i okeanografii - TINRO). As a result of this research, extensive fishing grounds were located, production of agar-agar from sea weed was taken up as well as other uses made of the resources of the sea. Interesting experiments were conducted by the scientists Zinaida Gutnikova and Panna Vorob'yeva with the plant called "root of life", growing in the primeval forests of the southern coastal area. This plant is said to possess remarkable healing properties.

Although a final evaluation of coal and mineral deposits of the coastal area is not yet possible, geologists assume that this is one of the richest regions of the USSR with regard to valuable minerals. At the present time, more than 100 deposits of coal and 20 deposits of copper are known, and deposits of iron ore, rich concentrations of silver, tin, zink, and bismuth were located. Lately, gold is being mined from rocks as well as from placer deposits.

The output of coal increased more than 10 fold from 1922 to 1954. Ore concentration plants were built at Tetyukha, where zink, lead and tin are mined. New coal mines opened

near Suchan, will soon produce more hard coal than all the old coal pits at Suchan put together.

Soil and climatic conditions permit to cultivate a wide variety of agricultural crops, such as rye, wheat, oats, barley, rice, soybeans, grapes and melons. Construction of numerous dams for river regulation purposes are planned near Anyuchin, where the mountain rivers Erl'dagoy and Tudagoy meet. Several electric power plants will be built at the Suyfuna, Ussuri and Suchane rivers. Preparatory work for the construction of the hydroelectric power plant on the Ulakhe river was started.

There are 1 drawings.

AVAILABLE: Library of Congress

Card 3/3

TAUMIN, R.; OSIPOV, I.

Wages of conductors based on actual receipts. Sots. trud no.2:125-127 F '58. (MIRA 11:1)

1. Zamestitel' direktora 2-go avtobusnogo parka g. Moskvy (for Taumin). 2. Nachal'nik planovo-ekonomicheskogo otdela 2-go avtobusnogo parka g. Moskvy (for Osipov).
(Moscow--Street railways--Employees)

OSIPOV, I.

Honoring the October Revolution. Mast. ugl. 6 no.8:3 Ag '57.
(Coal mines and mining) (MLRA 10:9)

OSIPOV, I.

Livestock feed-handling plant. Znan.sila no.9:16-17 S '54.
(MLRA 7:10)
(Feeding and feeding stuffs) (Agricultural machinery)

OSIPOV, I.

USSR
On: Coal Deposits in Sakhalin
On: Peculiarities of Sakhalin Coal

SOURCE: M: Sakhalinskiye Zarisi (notes on Sakhalin), 1946, Moscow. Abstracted in "Treasure Island" Report No. 4754-38, on file in Library of Congress, Air Information Division.

OSIPOV, I.

Best relaxation. Mast.ugl. 8 no.12:28-29 D '59.
(MIRA 13:4)

1. Zaveduyushchiy sektorom massovoy fizkul'turnoy raboty TSentral'nogo nauchno-issledovatel'skogo instituta fizicheskoy kul'tury.
(Physical education and training)

OSIPOV, I.

Neighbors. Mast.ugl. 8 no.3:24 Mr '59. (MIRA 13:4)
(Coal mines and mining)

CSIICV, I.

USSR
On: Culture of Berries, honey.
On: Bridge, rail road, highway to Harbor

SOURCE: Mi Sakhalinskiye Zapisi, Moscow, 1946. Abstracted in U AF "Treasure Island" Report No. 472P3-P4, on file in Library of Congress, Air Information Division.

OSIPOV, I.

USSR
On: Radio broadcasts Moscow-Aleksandrovsk
On: Arrival of Engineers [illegible] in the turbines

SOURCE: M: Sakhalinskiye Zapiski, Moscow, 1946. Abstracted in USAF "Treasure Island" Report No. 47255-56, on file in Library of Congress, Air Information Division.

OSIPOV, I. (Leningrad)

Theft. Izobr.i rats no.10:35 O '62. (MIRA 15:9)
(Leningrad--Machinery industry)

OSIPOV, I., yurist

Inventor and his remuneration. Izobr.i rats. no.2:23 F '62.
(MIRA 15:3)

(Technological innovations)

OSIPOV, I.

OSIPOV, I. Neftianiki. Moskva, Gostoptekhizdat, 1949. [illegible] p.

LC: [illegible]

SO: LC, Soviet Geography, Part I, 1951, Uncl.

CSIPCV, I. Sakhalinskie zapiski

CSIPCV, I. Sakhalinskie zapiski; osen' 1945. [Moskva], Molodaia gvardiia, 1946.
150 p. (Biblioteka puteshestvii.)
CU LU NGrnGU NNC

LC: DK771.S25

So: LC, Soviet Geography, Part I, 1951, Unclassified

OSIPOV, I.

Reclaimed land. Znan.sila no.5:14-15 My '54. (MLRA 7:6)
(Reclamation of land)

OSIPOV, I

19932 OSIPOV, I.

Devonskiye Fontany. (Razrabotka Tuymazin. Neft. mestorozhdeniy)

Ill. K Artseylov. Vokrul sveta, 1949, #6, s. 9-12

So: Letopis Zhurnal Statey, Vol. 47, Moskva, 1949

OSIPOV, I.

OSIPOV, I. V Zhiguliakh; na neft' po beregu Volgi. Moskva, Gos. nauch.-tekhn. izd-vo neftianoi i gorno-toplivnoi lit-ry, [illegible]. [illegible] p.

DLC: [illegible]

SO: LC, Soviet Geography, Part I, [illegible], Uncl.

OSIPOV, I.

OSIPOV, I., Sakhalinskie zapisi; osen' 1945. (Moskva) Molodaia gvardiia, 1946. 150p. (Biblioteka puteshestvii)
CU MH NGrnUN NNC DLC: DK771.S72O8

SO: LC, Soviet Geography, Part I, 1951, Uncl.

OSIPOV, I.

OSIPOV, I. Neftianiki. Moskva, Gostoptekhizdat, 1949. 122 p.

DLC: TN874.R9078

SO: LC, Soviet Geography, Part I, 1951, Uncl.

OSIPOV, I.

Miraculous pots. Znan.sila no.4:6-7 Ap '54. (MLRA 7:5)
(Vegetable gardening)

OSIPOV, I.; CHUDAKOV, A.

For communist labor in commerce. Sov. torg. 34 no.11:17-20 N '60.
(MIRA 13:11)

(Retail trade) (Socialist competition)

OSIPOV, I.

More books of this kind ("Story of coal" and "In coal mines" by V.D.Sosnov. Reviewed by I.Osipov). Mast.ugl. 8 no.9:28 S '59. (MIRA 13:2)
(Coal mines and mining) (Sosnov, V.D.)

OSIPOV, I.

The case is brought before the court. Izobr. i rats. no. 4:53 Ap '61. (MIRA 14:4)
(Leningrad—Petroleum industry—Technological innovations)

OSIPOV I A

BESKROVNYY, L.G., polkovnik, redaktor; OSIPOV, I.A., polkovnik, redaktor; KONOVALOVA, Ya.K., tekhnicheskiy redaktor.

[Russian generals; collection of documents and materials] Russkie polkovodtsy; sbornik dokumentov i materialov. Vol. 4, Pt. 1. [M.I.Kutuzov; collection of documents (July-October, 1812)] M.I.Kutuzov; sbornik dokumentov (iiul'-oktiabr' 1812 g.) Moskva, Vo noe izd-vo Ministerstva oborony Soiuza SSR. 1954. 550 p. (MLRA 7:11)

1. Russia (1923- U.S.S.R.) Glavnoye arkhivnoye upravleniye. TSentral'nyy gosudarstvennyy voyennoistoricheskiy arkhiv. (Kutuzov, Mikhail Illarionovich, 1871-1813)

SUN TZU; SIDORENKO, Ye.I., podpolkovnik [translator]; RAZIN, Ye.A., professor, general-mayor, redaktor; OSIPOV, I.A., polkovnik, redaktor; MYASNIKOVA, T.F., tekhnicheskiy redaktor

[Treatise on the art of war. Translated from the Chinese] Traktat o voennom iskusstve. [Perevod s drevnekitaiskogo i primechaniia E.I. Sidorenko] Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1955. 121 p. (Military art and science) (MLRA 9:7)

MURATOV, Khikmatulla Il'yasovich; OSIPOV, I.A. polkovnik, redaktor; SOKOLOVA, G.F., tekhnicheskiy redaktor.

[Revolutionary movement in the Russian army during 1905-1907] Revoliutsionnoe dvizhennie v russkoi armii v 1905-1907 gg. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1955. 357 p. (MLRA 9:1)
(Russia--Revolution of 1905)
(Russia--Army--History)

SEMICHEV, D.A., podpolkovnik; OSIPOV, I.A., polkovnik, redaktor; MYASNIKOVA, T.F., tekhnicheskiy redaktor

[General of the army N.F.Vatutin] General armii N.F.Vatutin. Moskva, Voen.izd-vo Ministerstva obor. SSSR, 1956. 52 p. (MLRA 10:2)

1. Moscow. TSentral'nyy muzey Sovetskoy Armii.
(Vatutin, Nikolai Fedorovich, 1901-1944)

SHELUDCHENKO, Viktor Ivanovich; OSIPOV, I.A., polkovnik, redaktor;
SHIBNIS, N.V., tekhnicheskiy redaktor

Aleksandr Parkhomenko. Moskva, Voen.izd-vo M-va obor. SSSR, 1956, 180 p. (MLRA 10:4)
(Parkhomenko, Aleksandr, 1885-1921)

PUNIN, Lev Nikolayevich polkovnik; OSIPOV, I.A., polkovnik, redaktor; SOROKIN, V.V., tekhnicheskiy redaktor.

[Field Marshal Kutuzov; a military and biographical sketch] Fel'd-marshal Kutuzov; voenno-biograficheskii ocherk. Moskva, Voen.izd-vo M-va obor. SSSR, 1957. 236 p. (MLRA 10:4)
(Kutuzov, Mikhail Illarionovich, 1745-1813)

OSIPOV, I.A., inzh.; BERSHIDSKIY, A.Kh., kand.tekhn.nauk, red.; PETROVA, V.V., red.izd-va; RUDAKOVA, N.I., tekhn.red.

[Consolidated standards for making estimates for buildings and structures] Ukrupnennye smetnye normy na zdaniia i sooruzheniia. Moskva, Gos.izd-vo lit-ry po stroit., arkhit. i stroit.materialam. No.4. [One-story multispan industrial buildings with spans of 27, 30, and 33 m.] Odnoetazhnye mnogoproletnye promyshlennye zdaniia s proletami 27, 30 i 33 m. 1959. 95 p. (MIRA 13:1)

1. Russia (1923- U.S.S.R.) Gosudarstvennyy komitet po delam stroitel'stva. 2. Gosudarstvennyy proyektnyy institut Promstroyproyekt (for Osipov).
(Industrial buildings) (Building--Estimates)

DMITREVSKIY, Nikolay Nikolayevich,; OSIPOV, I.A., polkovnik, red.; GOLYSHEV, M.I., polkovnik, red.; SRIBNIS, N.V., tekhn. red.

[Our air guard] Vozdushnyi strazh. Moskva, Voen. izd-vo M-va oborony SSSR, 1958. 188 p. (MIRA 11:11)
(Russia--Air force)

BESKROVNYY, Lyubomir Grigor'yevich; OSIPOV, I.A., red.; SOROKIN, V.V., tekhn.red.

[Russian Army and Navy in the 18th century; studies] Russkaia armiia i flot v XVIII veke; ocherki. Moskva, Voen.izd-vo M-va obor. SSSR, 1958. 643 p. (MIRA 11:6)
(Russia--Army) (Russia--Navy)

RAZIN, Yevgeniy Andreyevich; OSIPOV, I.A., polkovnik, red.; MYASNIKOVA, T.F., tekhn.red.

[History of the military art] Istoriia voennogo iskusstva. Moskva, Voen.izd-vo M-va obor.SSSR. Vol.2. [The art of war in the feudal era] Voennoe iskusstvo feodal'nogo perioda voiny. 1957. 653 p (MIRA 10:12)

(Military art and science--History)

KIKNADZE, Mikhail Geront'yevich; FILATOV, Lev Ivanovich; OSIPOV, I.A., redaktor; VOLKOVA, V.Ye., tekhnicheskiy redaktor.

[Moscow sky; history of an antiaircraft artillery unit] Nebo Moskvy; iz istorii gvardeiskoi zenitno-artilleriiskoi chasti. Moskva, Voen.izd-vo M-va obor.SSSR, 1957. 116 p. (MIRA 10:11)
(Antiaircraft artillery)

U-TSZY [Wu, Tsu]; SIDORENKO, Ye.I., podpolkovnik [translator]; RAZIN, Ye.A., general-mayor, professor, redaktor; OSIPOV, I.A., polkovnik, redaktor; SOROKIN, V.V., tekhnicheskiy redaktor

[Military art] Ob iskusstve vedeniia voiny. Moskva, Voen.izd-vo M-va obor.SSSR, 1957. 39 p. (MLRA 10:10)
(China--Military art and science)

OSIPOV, L.B.

Centralized power supply for lumbering and utilization of the ground as conductor in forest networks. Izv. Kazan. fil. AN SSSR. Ser. energ. i vod. khoz. no.1:87-118 '57. (MIRA 11:10)
(Electricity in forestry)

USSR/Cultivated Plants - Potatoes, Vegetables, Melons, etc. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15596

Author : I.G. Osipov, P.G. Bekmeeva

Inst : Agricultural Institute of the Academy of Sciences, Turkmen SSR.

Title : Potato Sowing Methods in the Kolkhoz. (Sposoby posadki kartofelya v kolkhoze).

Orig Pub : Tr. In-ta zemledeliya AN TurkmSSR, 1957, 1, 157-166

Abstract : At the Andryev Kolkhoz in Ashkhabadskaya Oblast' in 1954, the effect of the density of potato planting on the yield was sutided. Two tubers were placed in each cluster with 60 x 60 and 70- x 70 cm. the spacing between clusters. The variation in planting of 70 x 30 centimeters with a single tuber in the hole was also tried out. The best resul - gotten with the

Card 1/2

USSR/Cultivated Plants - Potatoes. Vegetables. Melons. etc. M.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15651

Author : I.G. Osipov

Inst : Agricultural Institute of the Academy of Sciences, Turkmen SSR.

Title : Sandy Soil for Melon Raising in Ashkhabadskiy Rayon. (Peschanoye bakhchevodstvo v Ashkhabadskom rayone).

Orig Pub : Tr. In-ta zemledeliya. AN TurkmSSR, 1957, 1, 167-183

Abstract : This article is a generalization of the production experiment of raising watermelons on sands adjacent to the crop zone in Ashkhabadskaya Oblast'. The results are also reported of a study of temperature and water conditions in the sand on melon patches in 1954. The best results were gotten here by sowing table watermelons in the first half of May.

Card 1/2

: USSR
: Cultivated Plants. Fruits. Berries. Nut. Tea.

: Ref Zhur - Biologiya, No. 17926

: Gulyy, I.G.,
: Inst.Agric., AS Turkmen SSR
: Variety Composition of Grapes of the Kaakhkinskiy District, Ashkhabadskaya oblast.

: Tr. Inst. Sad. i Vinogr. AN Turkm SSR, 1957, 2, 115-146

: The Institute of Agriculture of the Academy of Sciences Turkmenian SSR conducted in 1954 an investigation of the vineyards of a number of inhabited places in the mountain foothills and partially mountainous locality between the villages of Artyk and Kaakhka, that disclosed the presence in the plantations of up to 40 sorts, many of which are prevalent also in other districts of Turkmenistan, but there are also original sorts not encountered in other districts of the

Card: 1/2

PETROV, MIKHAIL PLATONOVICH

Plodovodstvo Turkmenistana (Fruit growing in Turkmenistana, by) M. P. Petrov I I.G. OSIPOV. Ashkhabad, Izdvo Akademii Nauk Turkmenskoy SSR, 19 .
175, (1) p. Illus., diagrs., map, tables.
At head of title: Akademiya Nauk Turkmenskoy SSR. Institut Zemledeliya.
Added T. P. in Turkmenistan Language (South Turkic)
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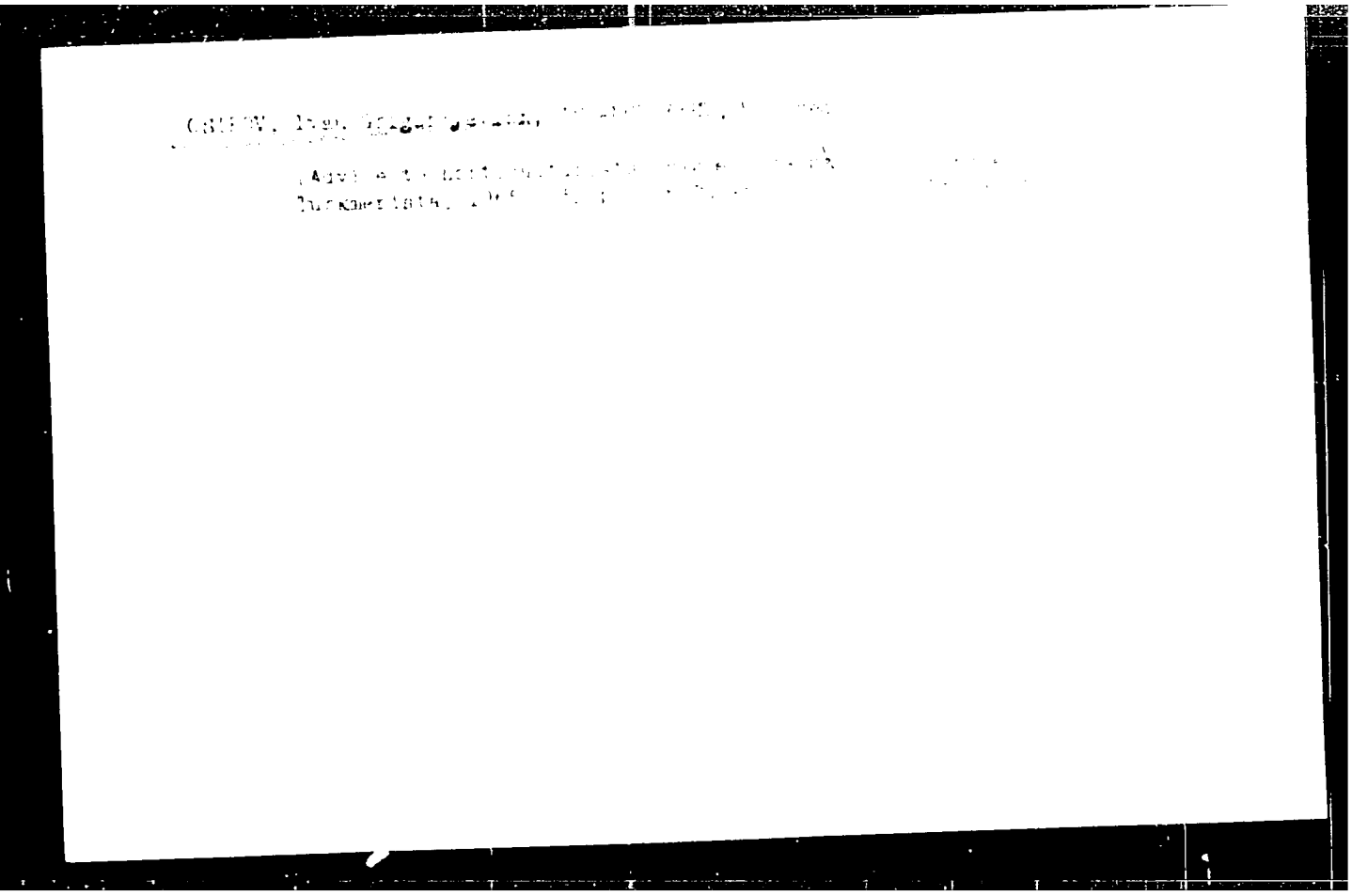

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[Equipment album; air heaters and heating units] Al'bom oborudovaniia; kalorifery i agregaty. Moskva, 1964. 96 p.

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OSIPOV, L.I.

24(0); 5(4); 6(2) PHASE I BOOK EXPLOITATION SOV/2215

Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva

Referaty nauchno-issledovatel'skikh rabot, sbornik No. 2 (Scientific Research Abstracts, Collection of Articles, Nr 2) Moscow, Standartgiz, 1958. 139 p. 1,000 copies printed.

Additional Sponsoring Agency: USSR. Komitet standartov, mer i izmeritel'nykh priborov.

Ed.: S. V. Reshetina; Tech. Ed.: M. A. Kondrat'yeva.

PURPOSE: These reports are intended for scientists, researchers, and engineers engaged in developing standards, measures, and gages for the various industries.

COVERAGE: The volume contains 128 reports on standards of measurement and control. The reports were prepared by scientists of institutes of the Komitet standartov, mer i izmeritel'nykh priborov pri Sovete Ministrov SSSR (Commission on Standards, Measures, and Measuring Instruments under the USSR Council of Ministers). The participating institutes are: VNIIM - Vsesoyuznyy nauchno-issledovatel'skiy institut metrologii imeni D.I. Mendeleyeva (All-Union Scientific Research Institute of Metrology imeni D.I. Mendeleyev) in Leningrad, Sverdlovsk branch of this institute. VNIIK - Vsesoyuznyy nauchno-issledovatel'skiy institut Komiteta standartov, mer i izmeritel'nykh priborov (All-Union Scientific Research Institute of the Commission on Standards, Measures, and Measuring Instruments), [illegible] from MGIMIP - Moskovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Moscow State Institute of Measures and Measuring Instruments October [illegible]); VNIIFTRI - Vsesoyuznyy nauchno-issledovatel'skiy institut fiziko-tekhnicheskikh i radiotekhnicheskikh izmereniy (All-Union Scientific Research Institute of Physicotechnical and Radio-engineering Measurements) in Moscow, KhGIMIP - Khar'kovskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Khar'kov State Institute of Measures and Measuring Instruments); and NGIMIP - Novosibirskiy gosudarstvennyy institut mer i izmeritel'nykh priborov (Novosibirsk State Institute of Measures and Measuring Instruments). No personalities are mentioned. There are no references.

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Laykin, A.Ya., S.M. Danilina, P.A. Shpan'on, and B.K. Karavashkin (KhGIMIP). Developing a Method for Checking GSS-6 Type Generators by a voltage to 1 microvolt and by the Factor of Modulation 125

Kanizovskiy, V.V. (VNIIM). Apparatus for Checking and Calibrating Generators of Undamped Electric Oscillations of Ultrahigh Frequency 130

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APPROVED FOR RELEASE: Wednesday, June 21, 2000 CIA-RDP86-00513R00123

OSIPOV, I.M., inzhener

According to standard plans. Nauka i zhizn' 22 no.6:3-6 Je '55.
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Basic problems of the theory of diagnosis, Moskva, Meditsina, 19[illegible].

Monthly List of Russian Accessions. Library of Congress, October 19[illegible].

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OSIPOV, I.N., prof.; KOPNIN, P.V., dots.; FETISOV, A.G., prof., red.; VOLKOVA, M.I., tekhn. red.

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Method of functional-invariant solutions for problems of the dynamic theory of elasticity of anisotropic media. Izv. AN SSSR. Ser. geofiz. no.3:391-396 Mr '63. (MIRA 16:3)

1. Petrozavodskiy gosudarstvennyy universitet.
(Elasticity) (Anisotropy)

OSIPOV, I.O.

Love waves in the anisotropic layer of monocline symmetry.
Izv. AN SSSR Ser. geofiz. no.5:687-694 My '63.
(MIRA 16:6)

1. Petrozavodskiy gosudarstvennyy universitet.
(Anisotropy) (Seismic waves)

3258
S/049/61/000/012/002/009
D216/D303

9.9865 (1109, 1327)

AUTHOR: Osipov, I.O.

TITLE: Reflection and refraction of plane elastic waves at the boundary of a liquid and a solid anisotropic body Boundary waves

PERIODICAL: Akademiya nauk SSSR. Izvestiya. Seriya geofizicheskaya, no. 12, 1961, 1768 - 1783

TEXT: The author solves the title problem using the method of V.I. Smirnov and S.L. Sobolev, [Abstractor's note: No reference given.] and studies the question of the existence of boundary waves A compressible liquid, with bulk modulus λ_1 and density ρ_1 lies above and makes contact along a horizontal plane with a solid anisotropic body which has 4 elastic constants, c_{11}, c_{22}, c_{66}, and c_{12}, and density ρ. The boundary lies in the plane of the x- and z- axes, and the y-axis is in the upward direction. The plane longitudinal wave in the liquid is expressed in the form

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Reflection and refraction

$$U_1 = mw\left(lt + mx + \sqrt{\frac{l^2}{a_1^2} - m^2}\,y\right),$$

$$V_1 = \sqrt{\frac{l^2}{a_1^2} - m^2}\,w\left(lt + mx + \sqrt{\frac{l^2}{a_1^2} - m^2}\,y\right)$$

where

$$U_1(\Omega)/m = V_1(\Omega)/\sqrt{\frac{l^2}{a_1^2} - m^2} = w(\Omega).$$

and $a_1 = \sqrt{\lambda_1/\rho_1}$. It is also shown that plane waves in the s[illegible] an[illegible]tropic medium may be written

$$U = \cdot\, cmn_k w(lt + mx + n_k y), \quad V = (am^2 + dn_k^2 \;\; ,^2;\; w(lt - mx + n_k y$$

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Reflection and refraction

where

$$a = \frac{c_{11}}{\rho}, \quad b = \frac{c_{22}}{\rho}, \quad d = \frac{c_{66}}{\rho}, \quad c = \frac{c_{66} + c_{12}}{\rho} \qquad (8)$$

and

$$n_k^2 = \frac{(b+d)l^2 - (ab+d^2-c^2)m^2}{2bd} \mp \sqrt{\left[\frac{(b+d)l^2 - (ab+d^2-c^2)m^2}{2bd}\right]^2 - \frac{a}{b}\left(\frac{l^2}{a} - m^2\right)\left(\frac{l^2}{d} - m^2\right)}, \qquad (9)$$

and the minus and plus signs correspond to k = 1 and 2 respectively. The boundary conditions which must be satisfied are

$$V_1 = V, \quad \frac{\partial U}{\partial y} + \frac{\partial V}{\partial x} = 0, \quad \rho_1 a_1^2 \left(\frac{\partial U_1}{\partial x} + \frac{V_1}{y}\right) = \rho\left[(c-d)\frac{U}{x} + b\frac{V}{y}\right] \quad (y=0) \qquad (13)$$

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Reflection and refraction . .

In a previous paper, (Ref 5: Izv AN SSSR, ser geofiz. no 5, 1961.) the author established the relations

$$n_1 = \sqrt{\frac{l^2}{b_1^2} - m^2}, \qquad n_2 = \sqrt{\frac{l^2}{b_2^2} - m^2}, \qquad (10)$$

for the velocities b_1 and b_2 of waves of the first and second type in an anisotropic medium. From this, the values of the velocities of these waves at maximum or minimum are shown to be

$$b_1(\vartheta_1^0) = \sqrt{\frac{ab\cdot(c+d)^2}{(a+b)-2(c+d)}}, \qquad b_2(\vartheta_2^0) = \sqrt{\frac{ab\ (c-d)^2}{(a+b)+2(c-d}}, \qquad (11)$$

for the relation

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Reflection and refraction ...

$$(a - d)\, b - c^2 > 0. \tag{18}$$

between the elastic constants. Considering the behaviour of b_1 and b_2 with the angles which the respective waves make with the y-axis, the author divides the anisotropic materials into 3 groups. Since, independent of the direction of propagation of the elastic wave, b_1 is always greater than b_2, and since the elastic wave velocity in a liquid remains constant, for the various groups the inequalities

$$\min b_2 > a_1, \qquad b_1 > b_2 > a_1, \tag{32}$$

$$\min b_1 > a_1 > \max b_2, \qquad b_1 > a_1 > b_2, \tag{32а}$$

$$\max b_1 < a_1, \qquad a_1 > b_1 > b_2, \tag{32б}$$

$$\max b_2 > a_1 > \min b_2, \qquad b_1 > b_2 > a_1, \; b_1 > a_1 > b_2, \tag{32в}$$

$$\max b_1 > a_1 > \min b_1, \qquad b_1 > a_1 > b_2, \; a_1 > b_1 > b_2. \tag{32г}$$

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Reflection and refraction ...

occur. A plane elastic wave in the liquid(Eq. (4)) with $l^2/a_1^2 - m^2 > 0$ is assumed to be incident on the boundary at an angle $\alpha_1 = \sin^{-1} ma_1/l$. Case 1: $a_1 > b_1 > b_2$. The reflected wave is shown to be $U_{-I} = r_1/R \cdot U_I$, $V_{-I} = -r_1/R \cdot V_I$, the refracted wave of the first type is $U_{+I} = -cn_1r_2/R \cdot U_I$, $V_{+I} = p_1r_1/\sqrt{l^2/a_1^2 - m^2}R \cdot V_I$, and of the second type $U_{+II} = \frac{cn_2r_3}{R} U_I$, $V_{+II} = \frac{p_2r_3}{\sqrt{l^2/a_1^2 - m^2}R} \cdot V_I$, where

$$p_k = am^2 + dn_k^2 - l^2, \qquad n_k = \sqrt{\frac{l^2}{b_k^2} - m^2} \quad (k = 1,2) \tag{39}$$

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Reflection and refraction ...

and

$$r_1 = c\sqrt{\frac{a}{b}}(n_1 - n_2)\left\{\frac{\rho}{\rho_1}\left[\sqrt{ab}l^2\sqrt{\frac{l^2}{a} - m^2} + (c-d)^2 m^2\sqrt{\frac{l^2}{d} - m_2} + \right.\right.$$
$$\left.\left. + ab\left(\frac{l^2}{a} - m^2\right)\sqrt{\frac{l^2}{d} - m^2}\right]\sqrt{\frac{l^2}{a_1^2} - m^2} - \sqrt{ab}l^2(n_1 + n_2)\sqrt{\frac{l^2}{a} - m_2}\right\}, \quad (41)$$

$$r_2 = 2l^2\left[a\left(\frac{l^2}{a} - m^2\right) + (c-d)n_2^2\right], \quad r_3 = -2l^2\left[a\left(\frac{l^2}{a} - m^2\right) + (c-d)n_1^2\right],$$

$$R = c\sqrt{\frac{a}{b}}(n_1 - n_2)\left\{\frac{\rho}{\rho_1}\left[\sqrt{ab}l^2\sqrt{\frac{l^2}{a} - m^2} + (c-d)^2 m^2\sqrt{\frac{l^2}{d} - m^2} + \right.\right.$$
$$\left. + ab\left(\frac{l^2}{a} - m^2\right)\sqrt{\frac{l^2}{d} - m^2}\right]\sqrt{\frac{l^2}{a_1^2} - m^2} +$$
$$\left. + \sqrt{ab}l^2(n_1 + n_2)\sqrt{\frac{l^2}{a} - m^2}\right\}.$$

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Reflection and refraction ...

From this, a wave of the second type is not excited for normal incidence at the boundary. Case 2: $b_1 > a_1 > b_2$. If the angle of incidence is less than the angle of total internal reflection, then the solutions of Case 1 apply. If not, then using the properties of complex variables, the total solution is

$$U_I = \mathrm{Re}\left\{U_{II}\left(lt + mx + \sqrt{\frac{l^2}{a_1^2} - m^2 y}\right)\right\},$$

$$V_I = \mathrm{Re}\left\{V_{II}\left(lt + mx + \sqrt{\frac{l^2}{a_1^2} - m^2 y}\right)\right\},$$

$$U_{-I} = \mathrm{Re}\left\{\frac{r_1^*}{R^*} U_{II}\left(lt + mx - \sqrt{\frac{l^2}{a_1^2} - m^2 y}\right)\right\},$$

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Reflection and refraction

$$V_{-I} = \mathrm{Re}\left\{ -\frac{r_1^*}{R^*} V_{II}\left(lt + mx - \sqrt{\frac{l^2}{a_1^2} - m^2}\, y \right) \right\},$$

$$U_{+I} = \mathrm{Re}\left\{ \frac{cn_1 r_2^*}{R^*} U_{II}\left(lt + mx - i\sqrt{m^2 - \frac{l^2}{b_1^2}}\, y \right) \right\},$$

$$V_{+I} = \mathrm{Re}\left\{ \frac{p_1 r_2^*}{\sqrt{l^2/a_1^2 - m^2}\, R^*} V_{II}\left(lt + mx - i\sqrt{m^2 - \frac{l^2}{b_1^2}}\, y \right) \right\},$$

$$U_{+II} = \mathrm{Re}\left\{ -\frac{cn_2 r_3^*}{R^*} U_{II}\left(lt + mx + \sqrt{\frac{l^2}{b_2^2} - m^2}\, y \right) \right\},$$

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Reflection and refraction

$$V_{+II} = \mathrm{Re}\left\{ \frac{p_2 r_1^*}{\sqrt{l^2/a_1^2 - m^2 R^*}}\, V_{II}\left(l^* + mx \sqrt{\frac{r_1^2}{b_2^2} - m^2 y} \right) \right\} \qquad (4)$$

where U_{II} and V_{II} represent the regular functions in the upper half-plane of the complex variable r_1^* and R^* are obtained from Eq. (4) by changing $\sqrt{l^2/a_1^2 - m^2}$ for $\sqrt{m^2 - l^2/a_1^2}$ and with $\sqrt{m^2 - l^2/b_2^2}$ for $n_2 = \sqrt{l^2/b_2^2 - m^2}$. Case 3: $b_1 > b_2 > a$. If the angle of incidence is less than the angle of total internal reflection, then the solution is as in Case 1. If $l^2/a_1^2 - m^2 > 0 > l^2/b_1^2 - m^2 > 0$, Eq. (4) has the solution. Finally, if $l^2/b_1^2 - m^2 > 0$, the solution has the form of Eq. (4) except that in this case r_1^* and R^* are obtained from Eq. (4) by changing $\sqrt{l^2/a_1^2 - m^2}$ and $\sqrt{l^2/b_2^2 - m^2}$ by $\sqrt{m^2 - l^2/a_1^2}$ and $\sqrt{m^2 - l^2/b_2^2}$.

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Reflection and refraction . .

$n_1 = -i\sqrt{m^2 - l^2/b_1^2}$, and $n_2 = -i\sqrt{m^2 - l^2/b_2^2}$. Case 4: $a_1 > b_1 > b_2$ or $b_1 > a_1 > b_2$ depending on the direction of motion of the wave. The solution of case 1 applies under the same conditions as before. Otherwise, Eq. (49) gives the solution. Case 5: $b_1 > a_1 > b_2$ or $b_1 > b_2 > a_1$ depending on the direction of the waves. The solution for $l^2/b_2^2 - m^2 > 0$ is as in Case 4. Otherwise, if $l^2/b_2^2 - m^2 < 0$, the solution is as for the condition in Case 3. Turning to the possible production of boundary waves, it is shown that the vibrations in both media may be represented by complex plane waves if

$$\Delta = i\rho_1 c\sqrt{\frac{a}{b}}\sqrt{m^2 - \frac{l^2}{a}}\,(n_1 - n_2)\,R = 0, \qquad (55)$$

where

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$$R = \rho\left[\sqrt{abl^2}\sqrt{m^2 - \frac{l^2}{a}} + (c-d)^2 m^2 \sqrt{m^2 - l^2/d} - \right.$$

$$\left. - ab\left(m^2 - \frac{l^2}{a}\right)\sqrt{m^2 - \frac{l^2}{d}}\right]\sqrt{m^2 - \frac{l^2}{a_1^2}} -$$

$$- \rho_1\sqrt{ab}\, l^2\left[\sqrt{m^2 - \frac{l^2}{b_1^2}} + \sqrt{m^2 - \frac{l^2}{b_2^2}}\right]\sqrt{m - \frac{l^2}{a}} . \qquad (56)$$

and $n_k = -i\sqrt{m^2 - l^2/b_k^2}$ From this, it follows that the existence of Rayleigh type boundary waves is coupled with the fulfilment of the condition $R = 0$ Expressing R as a function of $\vartheta = 1/m$ and studying its variation in the whole of the complex plane by constructing a Riemann surface, it is shown that for $a_1 < \sqrt{d} < \sqrt{a}$, on the first sheet of the sur-

Reflection and refraction

face, $R(\vartheta)$ has one real root in the interval $(0,a)$ and a symmetrical root in the interval $(0,-a)$ Similarly, for $\sqrt{d} < a_1 < \sqrt{a}$ and $\sqrt{a} < a$, $R(\vartheta)$ has two roots equal in value and opposite in sign within the intervals $(0,\pm d)$ From these real roots, the expressions for the boundary waves may be completed There are 5 Soviet-bloc references

ASSOCIATION: Petrozavodskiy gosudarstvenyy universitet (Petrozavodsk State University)

SUBMITTED: June 2o, 1961

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